

# RAAHIM ARBAZ

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## EXPERIENCE

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### GrayScrubsAI

King's Cross, London, UK (Remote)

*Founding Engineer (ML/CV)*

*Aug 2025 - Present*

- Training a three-head classification model on a ConvNeXt backbone in PyTorch for CLABSI prevention; ran multiple training iterations with CVAT-annotated data and tested the model on Jetson hardware
- Manage the annotation pipeline on CVAT and the labeling review queue for a HIPAA-sensitive dataset; evaluating VLM architectures for clinical video understanding
- Won NVIDIA Inception membership and \$10K in AWS Activate credits through direct applications; built and maintain the company's marketing site in Next.js with shadcn/ui and Tailwind

### Arantic Digital

Munich, Germany (Remote)

*Software Engineer*

*Oct 2025 - Present*

- Built an AI content generation feature on the Vercel AI SDK with Anthropic as provider, covering three writing modes with structured JSON output via Zod schemas and server-side web search as a tool
- Built the app-wide notification platform end to end: Postgres schema, BullMQ worker on Redis, SSE live push, entity subscriptions, and per-user preferences
- Wrote a custom product-search query parser with field-scoped tokens, quoted phrases, and Postgres full-text search, replacing a basic LIKE query; set up Bitbucket Pipelines CI

### Contact Center Specialists

Cheyenne, WY (Remote)

*Backend Developer - Infrastructure & Automation*

*Jul 2024 - Aug 2025*

- Ran production infrastructure for a US contact-center operator: Zabbix monitoring, LGTM observability, FreeSWITCH PBX, multi-database systems (PostgreSQL, MongoDB, Redis), and automated CDR billing pipelines
- Rewrote the Go telephone provisioning microservice with concurrent goroutines; built a voice automation flow on Gemini Live API

### Beaconhouse National University

Lahore, PK (Hybrid, Part-time)

*Lead Full-Stack Developer - Platform Projects*

*Dec 2024 - May 2025*

- Built an LMS on the T3 stack (Next.js, tRPC, Drizzle ORM, TypeScript) with role-based access control, CI/CD, and OAuth2 SSO
- Built an HBL Bank analytics dashboard with TypeScript and Web Workers for client-side ETL, Deck.gl WebGL geospatial heatmaps, and React Flow network visualizations

### SCIT CAIR

Lahore, PK (Hybrid, Part-time)

*AI Researcher*

*Jan 2024 - Jun 2025*

- Research assistant under Dr. Usman Nazir on satellite remote sensing with ViT and CLIP filtering over a 600K+ image dataset; co-authored NeurIPS '24 Climate Change AI Workshop paper on air pollution source detection

### Valyrian Systems

Santa Clara, CA (Remote)

*Cybersecurity & Network Intern*

*Jan 2024 - Jul 2024*

- Built packet-level URL filtering and real-time traffic control with XDP (eXpress Data Path) on Linux for enterprise network security

## EDUCATION

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### Beaconhouse National University

Lahore, PK

*BSc(Hons) Computer Science*

*Aug 2021 - Jun 2025*

### First Steps School Of Arts And Science & The Lahore Lyceum

Faisalabad, PK

*A-Levels & O-Levels, Pre-Engineering*

*2016 - 2021*

## SKILLS

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**Languages:** Python, Go, TypeScript, JavaScript, C++, SQL

**Technologies:** Next.js, React, FastAPI, Gin, Express, PostgreSQL, MongoDB, Redis, Qdrant, Docker, AWS, Linux

**AI & Real-time:** PyTorch, ConvNeXt, ViT, CLIP, CVAT, LangChain, LangGraph, RAG, Vercel AI SDK, Anthropic API,

OpenAI API, LiveKit, WebRTC, Twilio

## ACHIEVEMENTS

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- **NVIDIA Inception Program & \$10K AWS Activate Credits** - Secured for GrayScrubsAI through direct startup applications.
- **VoiceFlow** - Local-first dictation app I wrote, 300+ GitHub stars. Built with faster-whisper for GPU-accelerated inference, Pyloid desktop shell, and a React frontend.
- **NeurIPS 2024 Climate Change AI Workshop** - Co-authored paper on satellite-based air pollution source mapping with Vision Transformers.
- **Dean's Honour List** - Beaconhouse National University (Fall 2024, Spring 2025).